

MAKE & TAKE

Make & Take Activities involve consumable materials, so children & families take their creations home!



LEGO BUILD

Using random Legos, create anything imaginable, or use the prompt cards for a more complex challenge.

BALLOON POWERED CARS

Using everyday materials and a balloon, power a vehicle to glide along the floor experiment with different design elements to increase speed and distance.



CLAY CREATIONS

Explore architecture by building geodesic domes from toothpicks & modeling clay

LED FLASHLIGHTS

Experiment with creating a simple circuit LED flashlight.



Follow directions to create origami! Animals, flowers and shapes!

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ANIMAL SCAT

Using clay and other materials, create reallooking animal "scat!"

FOIL BOATS

Using foil, create a boat that can hold weight and still float experiment with boat design and weight.





CATAPULTS

Using simple materials, build a model catapult and then improve the design for increased distance & speed.

3DOODLER

Use the 3Doodler pen to create 3D art and structures straight from your imagination.

SLIME

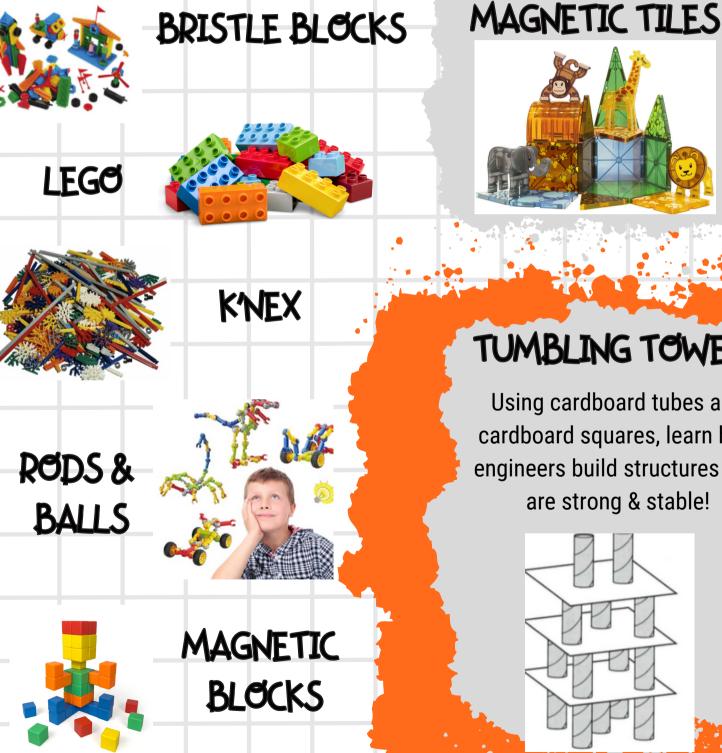
Combine icky sticky ingredients to make your own slime to take home.

COSTUME CREATIONS

Follow the directions to turn a paper bag into a vest or a cape. Then, decorate with any of the materials available.



Free Build Activities allow children & FREE families to explore open-ended building materials - using their imagination or build BUILD cards to guide them.



TUMBLING TOWER

Using cardboard tubes and cardboard squares, learn how engineers build structures that are strong & stable!

CHALLENGES

Challenge Activities provide children & families with an activity that has specific constraints & goals.

BEE BOT ROBOTS

Build a maze out of popsicle sticks and then code the robots to move through the maze.



CUP PYRAMID

Work in teams to build a cup pyramid - but with a twist! You can't use your hands!

BIRD NEST

Using only the materials provided, build a nest to hold 3 eggs (marbles).

HOUSE OF CARDS

Discover building with just playing cards – uncover strengths in different card configurations.

STEM CAREERS

STEM Careers Activities allow children & families to learn about STEM Careers through exploration!

BOXING BEANS

Experiment with package design to determine the most efficient way to hold a product. STEM Career: Advanced Manufacturing





DOMINO DIVING BOARD

Make a cantilever and gain a better understanding of how engineers help us to "hang out" safely.

STEM Career: Achitecture

GLUE IS THE CLUE



Demonstrate how composite materials are used in engineering to make something stronger. STEM Career: Engineering

SNAP CIRCUITS

Experiment with Snap Circuits eletrical components. Kit includes directions for projects. STEM Career: Electrical

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SOLID GROUND

Demonstrate how different Earth materials hold up to pressure. **STEM Career: Geology**

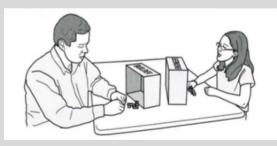
THRILL SEEKERS



Work together to move marbles through plastic tubing, much like a rollercoaster. STEM Career: Aerodynamics

LET'S COMMUNICATE

One partner builds a simple structure, then provides verbal directions for another person to build the same structure. **Computational Thinking**



STEMSTEM Fun Activities are quick & easyEXPERIMENTAL STEMexperiments for children & families to
enjoy together!

ANCIENT ARCHITECTURE



Follow Lego-like instructions to build arches and domes. Historical information provided, too!

INSPIRED BY NATURE

Match human-made contraptions with those that match nature! Discover how nature inspires engineers & inventors!

MAKE IT LOUD

Experiment with how different materials influence sound, using a cardboard tube.



When: Thursday, April 4th Time: 5 – 7 pm Where: Grade School Gym

Join us for: free build activities, make & take....We can edit for the centers you choose.

Sponsored by: Columbia Gorge

